Program Area(s): Information Technology	

Lesson Plan Title: Create your Own Ringtone – Audio Editing
Sound Editing – Audio editing software to create a 20-second ringtone to put on their phone and explore related careers.

Estimated Time: 45-60 minutes

Primary CTE Pathway(s) Explored: Digital Media

Intended Learning Outcome(s):
- Explain how self-knowledge/self-efficacy (interest, abilities, and strengths) relates to career interests and selecting and achieving goals.
- Identify career and postsecondary education options through investigation of high school to college and career pathways.
- Consider and explore nontraditional career opportunities.
- Explain how academic content knowledge and technical skills are used in various careers.

College and Career Awareness Standard, Objective(s):
Standard 7, Objective 1

Cross Curriculum Integration:
- **Performing Arts:**
- **Technology:** Recording and Editing Audio requires technology skills and software know-how.

Career Opportunities in the CTE Pathway(s): Sound engineering technician, broadcast technician, audio-visual specialist, radio audio engineer, radio DJ, music teacher, secondary school teacher, foley artist, recording artist, director of audiography, musician

Nontraditional Career Opportunities: Sound engineering technician, audio equipment technician

STEM Specific Career Opportunities: Sound engineering technician, radio audio engineer, broadcast technician, audio equipment technician, director of audiography

Methods (Approach to Teaching and Learning):
- Direct Instruction and Demonstration
- Problem-Based or Project-Based Learning

Materials Needed:
- Computer
- Audio Editing
- Software (Audacity or PowerPoint 2013)

Vocabulary:
- Export
- Fade-in
- Fade-out
- Normalize
- Play
- Record
- Trim

Prior Knowledge Required by Students:
- How to "Open" and "Save" files in a computer setting.

Instructional Procedures:

Students will obtain a song from Soundzabound on the Pioneer library. They will import the song into Audacity or PowerPoint and use the sound editing tools to trim the sound clip to 20-seconds. They will also learn how to fade the clip in and out and how to export it as an .mp3 file that can be sent to their phone, if they choose, and be used as a ringtone.

Career Video
NASA | Happy Birthday, Curiosity! (Martian Rover Plays "Happy Birthday")

Additional Resources:
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Assessment(s):
- Explanation of concepts (written, oral, or through demonstration or performance of particular skills): Students can explain definitions of key concepts and vocabulary and demonstrate that they know how to perform audio-editing skills.
- Develop a portfolio of artifacts documenting concepts learned. Students will create a sound file that could be used as a ringtone on a cellphone.